

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of the southeast corner traffic signal pole and associated equipment for the existing traffic control signal at the intersection of MD 197 (Laurel-Bowie Rd) and Montpelier Dr/Brock Bridge Rd in Prince George's County.

II. INTERSECTION OPERATION

The intersection currently operates in a NEMA 6-phase, full-traffic-actuated mode with an exclusive left turn phase for the northbound and southbound approaches, a concurrent pedestrian phase across the west leg, an alternate pedestrian phase across the north leg of the intersection and a pre-emption phase for the northbound movement.

III. CONTROLLER REQUIREMENTS

The existing fully-traffic-actuated eight phase traffic signal controller with a video detection system, intersection monitor with battery back-up for phone drop, detector rack, loop detector amplifiers, and opticom system housed in a NEMA size "6" base mounted cabinet will be used.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	15	16
PHASE 1 & 5	<IG-	<IG-	R	R	<IG-	<IG-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE															DW	DW	DW	DW
PHASE 1 & 6	<IG-	<IG-	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	<Y-	<Y-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	<R-	<R-	R	R	<IG-	<IG-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	<R-	<R-	R	R	<R-	<R-	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT.	<R-	<R-	R	R	<R-	<R-	R	R	G	G	G	G	G	G	DW	DW	WK	WK
PED CLEAR	<R-	<R-	R	R	<R-	<R-	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW
4 & 8 ALT. CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PRE-EMPTION #1	<IG-	<IG-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PRE-EMPTION #1 CHANGE	<Y-	<Y-	Y	Y	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT 3:

MR. RAY MERCADO, TEAM LEADER - TRAFFIC
PHONE: (301) 513-7316

MR. KEVIN NOWAK, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7385

MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH, UTILITY ENGINEER
PHONE: (301) 513-7350

OFFICE OF TRAFFIC AND SAFETY:

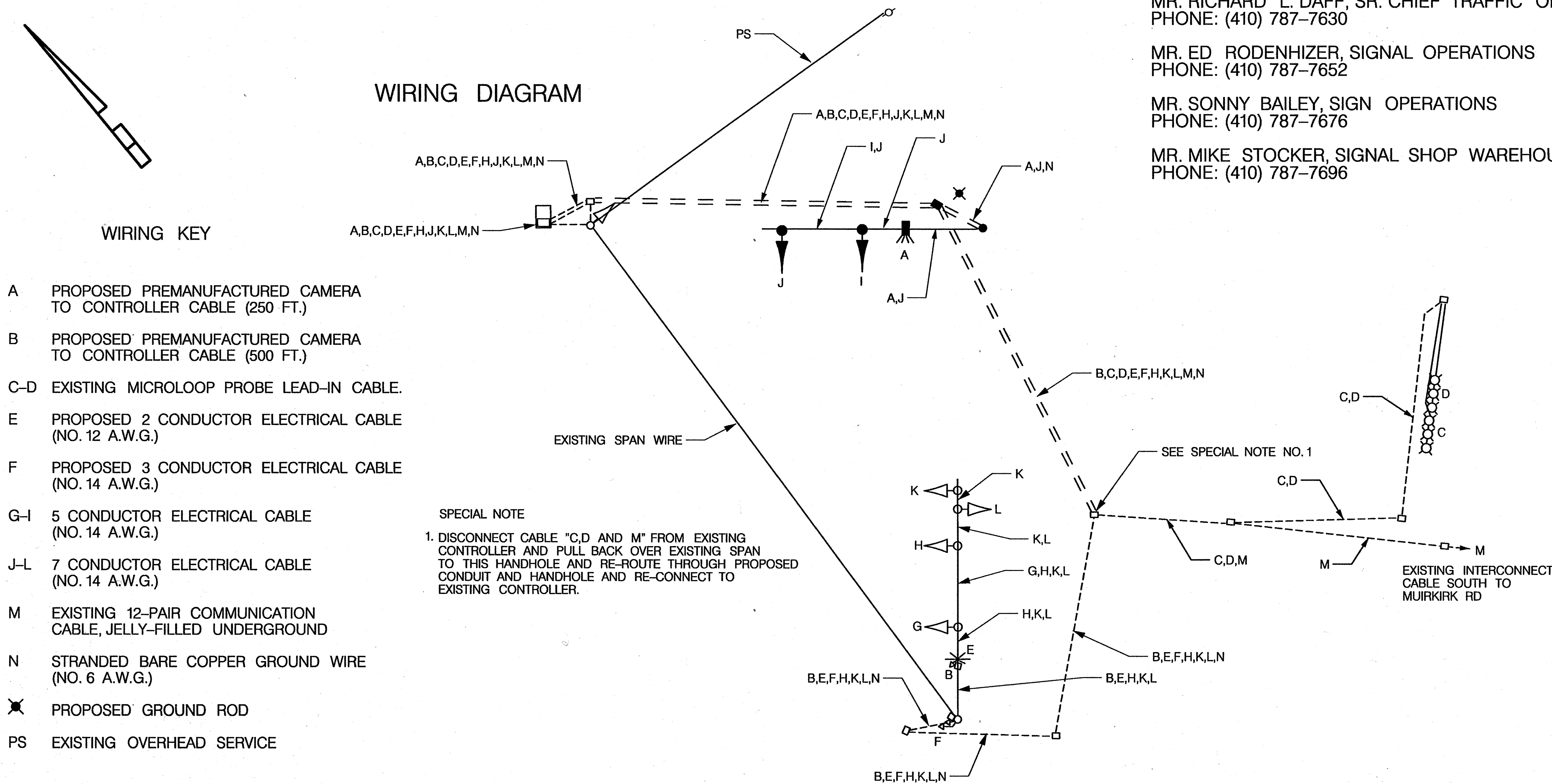
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ED. RODENHIZER, SIGNAL OPERATIONS
PHONE: (410) 787-7652

MR. SONNY BAILEY, SIGN OPERATIONS
PHONE: (410) 787-7676

MR. MIKE STOCKER, SIGNAL SHOP WAREHOUSE
PHONE: (410) 787-7696

WIRING DIAGRAM



EQUIPMENT LIST A

A. EQUIPMENT TO BE FURNISHED BY SHA.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	SHEET ALUMINUM SIGNS 1 EACH R3-5(L) 30" X 36" - MAST ARM MOUNT 1 EACH D3-2 DUAL FACE VAR. X 16" - MAST ARM MOUNT	SF	15
900000	32 FOOT TWIN (50FT./70FT.) MAST ARM POLE AND 70 FT. MAST ARM	EA	1

EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	LS	1
203030	TEST PIT EXCAVATION	CY	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	5
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	445
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	185
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	15
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
813015	INSTALL OVERHEAD SIGN	SF	15
816001	VIDEO DETECTION CAMERA	EA	1
816005	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA, TO CONTROLLER	EA	1
816010	CONTROL CABLE 500 FT. VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
866204	INSTALL STEEL POLE WITH A SINGLE MAST ARM - ANY SIZE	EA	1
837001	GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	1
861106	ELECTRICAL CABLE 3 CONDUCTOR (NO. 14 A.W.G.)	LF	330
861107	ELECTRICAL CABLE 5 CONDUCTOR (NO. 14 A.W.G.)	LF	420
861108	ELECTRICAL CABLE 7 CONDUCTOR (NO. 14 A.W.G.)	LF	1095
861116	ELECTRICAL CABLE 2 CONDUCTOR (NO. 12 A.W.G.)	LF	365
800000	DISCONNECT, PULLBACK AND RE-ROUTE EXISTING CABLES	LF	555
800000	REMOVE AND DISPOSE OF EQUIPMENT AND MATERIAL	LS	1
860284	12 INCH L.E.D. VEHICULAR SIGNAL HEAD SECTIONS	EA	6

EQUIPMENT LIST C

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO MSHA.
ALL UNUSED EQUIPMENT AND MATERIAL REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

MDA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 197 (LAUREL - BOWIE RD)
AND MONTEPIER DRIVE

DRAWN BY: MO	F.A.P. NO. NA	TS NO. 2546F	SHEET NO. 2 OF 2
CHECKED BY: EBY	S.J.A. NO.	T.I.M.S. NO. H089	
SCALE: NONE	COUNTY: PRINCE GEORGE'S	LOG MILE: 16019712.99	
DATE: APRIL, 2005			